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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/720,520	12/22/2000	Ernst Wellisch	WELLISCH	1684

20151 7590 10/23/2002

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EXAMINER

CUEVAS, PEDRO J

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 10/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/720,520

Applicant(s)

WELLISCH, ERNST

Examiner

Pedro J. Cuevas

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 July 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,662,200 to Rank et al. in view of U.S. Patent No. 4,486,679 to Jones.

Rank et al. disclose the construction of an electric motor (10) including a stator (26) and a rotor (12) which defines a rotor axis and includes at least a stack of laminations layered by sheets (58, 60) and provided with slots (34) for receiving rotor windings, wherein at an end face of the at least one stack of laminations, there is provided at least one rotor end sheet (58 or 60) which is made of high-strength fine-grain structural steel.

However, it fails to disclose a rotor end sheet abutting laterally in a radial direction the stack of laminations, wherein the rotor end sheet matches, at least in proximity of the rotor axis, a geometric shape of the sheets layered in the stack of laminations.

Jones teach the construction of a permanent magnet rotor and method of making the same having a rotor end sheet (21) abutting laterally in a radial direction the stack of laminations, wherein the rotor end sheet matches, at least in proximity of the rotor axis, a geometric shape of the sheets layered in the stack of laminations for the purpose of accomplishing the axial containment of the rotor.

It would have been obvious to one skilled in the art at the time the invention was made to use the rotor end sheets disclosed by Jones on the electric motor disclosed by Rank et al. for the purpose of accomplishing the axial containment of the rotor.

5. Claims 2, 3, 7 & 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,662,200 to Rank et al. in view of U.S. Patent No. 4,486,679 to Jones as applied to claims 1 and 6 above, and further in view of U.S. Patent No. 3,590,208 to Martini et al.

Rank et al. in view of Jones discloses an electric motor (10) as described above.

However, it fails to disclose an electric motor, wherein:

the rotor end sheet is provided with slots for receiving the rotor windings, said slots of the rotor end sheet being closed, or at least some of the slots of the rotor end sheet having leakage orifices.

Martini et al. teaches an electric motor, wherein the slots for receiving the rotor windings, are closed (Figure 2), or at least some of the slots have leakage orifices (Figure 4) for the purpose

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of finding a method, which will adapt the projection welding process to the manufacture of a stack of laminations with inclined slots.

It would have been obvious to one skilled in the art at the time the invention was made to use the open or closed slot configuration disclosed by Martini et al. on the rotor end sheets disclosed by Rank et al. for the purpose of finding a method, which will adapt the projection welding process to the manufacture of a stack of laminations with inclined slots.

6. Claims 4,5 & 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,662,200 to Rank et al. in view of U.S. Patent No. 3,590,208 to Martini et al., further in view of U.S. Patent No. 3,590,208 to Martini et al. as applied to claims 2, 3, 7 & 8 above, and further in view of common knowledge in the art.

Rank et al. in view of Jones, further in view of Martini et al. discloses the claimed invention except for the electric motor (10) being a high-speed, heavy-duty asynchronous motor.

It would have been an obvious matter of design choice to select the appropriate materials to make the electric motor (10) a high-speed capable, heavy-duty classified asynchronous motor since the applicant has not disclosed that motor speed capability and heavy-duty classification solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well without these two material determined characteristics.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

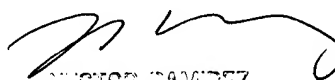
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Néstor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Pedro J. Cuevas
October 15, 2002


NÉSTOR RAMÍREZ
SUPERVISOR, ART UNIT 2834
TECHNICAL CENTER 2850